

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04L12/26 H04L12/14 G07F19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 H04L G07F G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 202 528 A (ALCATEL USA SOURCING, L.P) 2 May 2002 (2002-05-02) abstract paragraph '0008! - paragraph '0011! paragraph '0013! - paragraph '0016! paragraph '0019! - paragraph '0026! -----	1,13,20
A	US 5 175 682 A (HIGASHIYAMA ET AL) 29 December 1992 (1992-12-29) abstract column 2, line 9 column 5, line 46 -----	1,13,20

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search 23 March 2005	Date of mailing of the international search report 01/04/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer Lievens, K

Information on patent family members

International Application No

PCT/EP2004/053212

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 1202528	A 02-05-2002	EP	1202528 A2	02-05-2002
US 5175682	A 29-12-1992	AU WO	9162491 A 9210901 A1	08-07-1992 25-06-1992